

AVK VALVES FOR UNCONVENTIONAL GAS PROJECTS

AVK FLOW CONTROL



WE GUARANTEE
SAFETY STANDARDS
ARE MET
SO CAN YOU

Expect... **AVR**

AVK ONE OF THE WORLD'S LEADING VALVE MANUFACTURERS



The AVK Group, with its more than 100 companies worldwide, is supplying customers worldwide with products and services via own sales companies, agents, distributors and license holders and employs more than 3,800 people. AVK's core business is the production of valves, hydrants and accessories for water and gas distribution networks, sewage treatment and fire protection.

The experience of more than 50 years of meeting the needs of the world's foremost municipal water authorities, and proven reliability in buried infrastructure projects allows AVK to deliver high quality, reliable and functional valves and fittings for service in both water and gas.

AVK has been supplying into unconventional gas projects since 2010. A wide range of valve types and specifications are installed and currently meeting the needs of Australia's major Coal Seam Gas producers. In addition to reliable supply of product, the supporting quality and document control systems required to meet the demands of the gas companies developing these production fields, are well established and proven.

AVK companies operate 3rd party accredited systems for:

ISO 9001 – Quality Management

ISO 14001 – Environmental Management

ISO 4801 – Occupational Health & Safety Management

Some of the key services offered include documented raw materials traceability, Positive Material Identification (PMI) for critical components, Inspection and Test Plans, witnessed production and qualification testing and local inspection prior to shipping to project sites.

Our global representation, inclusive of multiple manufacturing sites and dedicated centres of manufacturing allows a wide range of design and material options to be offered to suit almost any application. To date, new configurations of proven valve designs, and complete new product developments have been introduced specifically to meet the needs of unconventional gas customers in gathering, transmission, storage and distribution networks for both water and gas.

Costs associated with failure or unplanned maintenance during operation may be many times the capital cost of initially procuring a valve. Close client communication, together with an understanding of local conditions, and the ability to tailor production to the specific needs of the fluid being controlled, while also leveraging global scales of economy, allows AVK to offer the lowest life-cycle cost with the highest levels of reliability.

Significant local investment has been made in each geographic market serviced by AVK to ensure products are manufactured to the required local standards, and that after-market support is delivered by local companies who understand and can respond to the individual requirements of customers in their region.

AVK manufactures a broad range of valve types, including gate valves, butterfly valves, ball valves, air release valves, swing check valves, couplings, hydrants and fittings. You can expect AVK to develop complete solutions including the valve, as well as manual and automatic actuation systems, extension spindles for operating valves at various buried depths, position indicators, torque limiters and lockable surface boxes, to mention a few.

Group companies bring specific expertise and proven experience in meeting the necessary quality, material and manufacturing transparency requirements of the major upstream gas producers.

Through a combination of internal research and development programs together with carefully selected acquisitions, AVK has built strong brands

supplying valves and controls for water treatment, dams & reservoirs, HVAC, chemical processing, marine and other industrial sectors. Specific product and technological expertise resides within various group companies, allowing each individual AVK company to draw on this in-depth market, product and manufacturing knowledge.

Brands incorporated within the AVK Group through acquisition include:

WW EuroValve

Glenfield
Dams, reservoirs & hydro solutions

tec
artec

IA
InterApp

TYPICAL GATHERING LINES

SERIES 36



PE Tailed Gate Valve (for gas lines)

SERIES 36



PE Tailed Gate Valve (for water lines)

SERIES 89



Concentric PE Butterfly Valve for Buried Service (for gas lines)

SERIES 89



Concentric Butterfly Valve for Buried Service (for water lines)

SERIES 06



Double Flanged Resilient Seated Ductile Iron Gate Valve (for gas lines)

SERIES 57



Double Flanged Ductile Iron Gate Valve (for water lines)

SERIES 85



Spigot PE100 Resilient Seated Ball Valve (for gas lines)

SERIES 85



Spigot PE100 Resilient Seated Ball Valve (for water lines)

SERIES 75

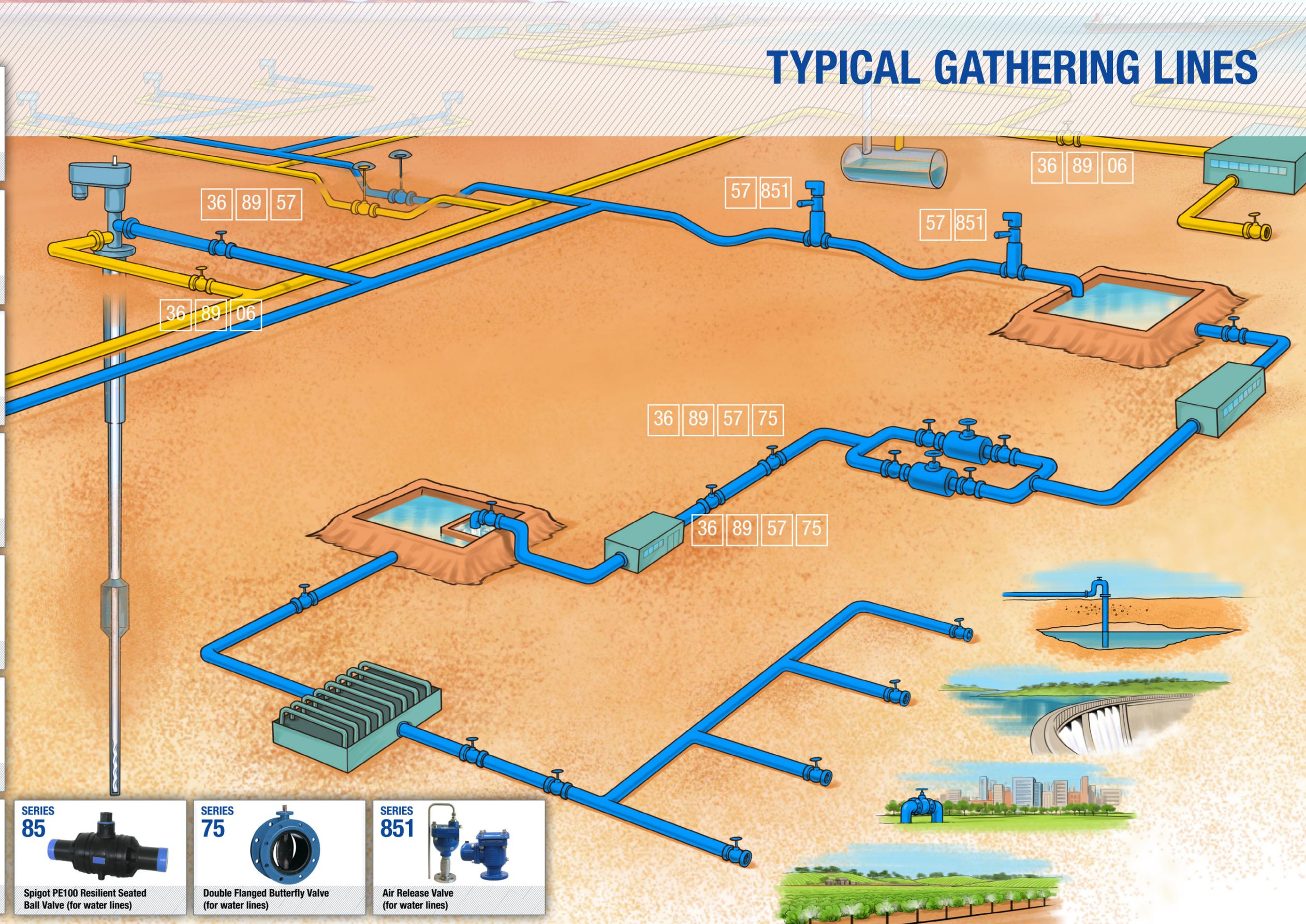


Double Flanged Butterfly Valve (for water lines)

SERIES 851



Air Release Valve (for water lines)



GAS



Product

Double Flanged Resilient Seated Ductile Iron Gate Valve with fully encapsulated rubber wedge. Available with stem cap, hand wheel, manual gearbox or electric actuation.

PE Tailed Resilient Seated Ductile Iron Gate Valve with fully encapsulated rubber wedge. Available with stem cap, hand wheel, manual gearbox or electric actuation.

Spigot PE100 resilient seated Ball Valve. Low operating torque with safety connector ensures no leakage if over torqued.

Spigot PE100 resilient seated concentric Butterfly Valve for buried service. Available with buried service gearbox, extension stem and position indicator.

Full bore metal seated Gate Slide Valve with tungsten carbide finish. Bi-directional 100% sealing double block and bleed.

Technical Data

Range	Range	Range	Range	Range
PN10, DN50-600 Available with AS, BS, EN and ANSI flanges	PN10 to suit PE100 SDR11 Pipe OD 63mm to 400mm	PN10 to suit PE100 SDR11 Pipe OD 40mm to 180mm	PN10 to suit PE100 SDR11 Pipe OD 63mm to 630mm	Up to PN100 to suit DN80-400
Series No.	Series No.	Series No.	Series No.	Series No.
06	36	85	89	222
Applications	Applications	Applications	Applications	Applications
Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines	Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines	Gas Isolation Valve in: • Gathering Lines	Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines	Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines

ACCESSORIES



Product

Flanged double block and bleed Trunion Mounted Ball Valve with spring loaded soft seated seat rings. Maintenance free triple safety sealing system.

Welded end block and bleed Trunion Mounted Ball Valve with spring loaded soft seated seat rings. Maintenance free triple safety sealing system.

Technical Data

Range	Range
Up to PN420 to suit DN80-500	Up to PN240 to suit DN80-500
Series No.	Series No.
221	221
Applications	Applications
Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines	Gas Isolation Valve in: • Gathering Lines • Transmission/Trunklines



Product

Extension stems for buried valve actuation. Stems can be attached direct to valve stem or gearbox output shafts. Available in three extension ranges to enable flexibility in the field.

Trafficable Synthetic Surface Box available in various depths, shapes and sizes with synthetic or cast lid. Options include security locking, support tiles and colour coded lids.

Technical Data

Range	Range
3 variable length ranges. Maximum input torque 200Nm	
Series No.	Series No.
04	80
Applications	Applications
• Buried valves with or without gearbox	• Access to buried valves • Housings for position indicators

WATER



Product

Double Flanged Resilient Seated Ductile Iron Gate Valve with fully encapsulated rubber wedge. Available with stem cap, hand wheel, manual gearbox or electric actuation.

PE Tailed Resilient Seated Ductile Iron Gate Valve with fully encapsulated rubber wedge. Available with stem cap, hand wheel, manual gearbox or electric actuation.

Double Flanged Electric Seated Ductile Iron Eccentric Seal on Body Butterfly Valve available with manual gearbox or electric actuation.

Spigot PE100 Resilient Seated Concentric Butterfly Valve for buried service. Available with buried service gearbox, extension stem and position indicator.

Technical Data

Range	Range	Range	Range
PN16 to suit DN50-600 PN25 to suit DN50-300	PN16 to suit PE100 SDR11 Pipe OD 63mm to 400mm	PN16 PN21 PN25 DN50-1400	PN16 to suit PE100 SDR11 Pipe OD 63mm to 630mm
Available with AS, BS, EN and ANSI flanges	PN20 to suit PE100 SDR9 Pipe OD 63mm to 315mm		
Series No.	Series No.	Series No.	Series No.
55 & 57	36	75	89
Applications	Applications	Applications	Applications
Water Isolation Valve and Scour Valves in: <ul style="list-style-type: none"> Gathering Lines Transmission/Trunklines Water Treatment Water Storage - Dams, Reservoirs, Ponds Water Pump Stations 	Water Isolation Valve and scour valve in: <ul style="list-style-type: none"> PE Gathering Line PE Transmission/Trunklines Water Treatment Water Storage - Dams, Reservoirs, Ponds Water Pump Stations 	Water Isolation Valve in: <ul style="list-style-type: none"> Gathering Lines Transmission/Trunklines Water Treatment Water Storage - Dams, Reservoirs, Ponds Water Pump Stations 	Water Isolation Valve in: <ul style="list-style-type: none"> Buried PE Gathering Lines Buried PE Transmission/Trunkline line



Product

Spigot PE100 Resilient Seated Ball Valve. Low operating torque with safety connector ensures no leakage if over torqued.

Flanged Dual and Single orifice Ductile Iron Automatic Air Release Valves. Aerokinetic design ensuring the valve will not close prematurely whilst the line is being filled. Available with Vented non return or inflow check options.

Double Flanged pilot operated Diaphragm Control Valve. FBE coated Ductile Cast Iron body and bonnet with non coated 316 Stainless Steel components.

High performance, fast acting, non-slam check valve where rapid flow reversal takes place leading to severe reflux conditions. (e.g. multi-pump systems). Cast construction with metal seats, this valve incorporates every mechanical and hydraulic feature to facilitate acceleration of the doors.

Technical Data

Range	Range	Range	Range
PN16 to suit PE100 SDR11 Pipe OD 40mm to 180mm	PN16 to suit DN50-DN150 takeoffs	PN16 DN50-300	PN16 to suit DN100-1400 PN25 to suit DN100-900
			Available with AS, BS, EN and ANSI flanges
Series No.	Series No.	Series No.	Series No.
85	851	859	641
Applications	Applications	Applications	Applications
Water Isolation Valve in: <ul style="list-style-type: none"> Buried PE Gathering Lines Low Point Drains 	Air Release Valve in: <ul style="list-style-type: none"> Water Transmission/Trunkline Water Gathering Lines Water Pump Stations 	For use in Water Transmission lines as: <ul style="list-style-type: none"> Pressure Sustaining Valve Pressure Control Valve Control of flow Valve 	Non Return Valve in: <ul style="list-style-type: none"> Water Pump Stations Transmission/ Trunklines



Quality control starts long before we have the physical product

Before AVK products are released on the market, they are subject to a comprehensive and precisely defined series of tests and quality evaluations. This ensures the quality, durability and reliability of new products.

Testing and quality control of new products include:

Computer simulation using 3-D software simulates strength and pressure load on all parts of the product, enabling us to reinforce and optimise possible weak zones at the very early stages of development.

Prototype tests of physical dimensions, reliability and durability ensure that products comply optimally with specified tolerances and functions from the onset.

Accelerated lifetime tests carried out to ensure that the products function also after many years underground. Various pressure and tensile strength tests are conducted in carefully monitored test basins.

Destructive tests made to determine maximum load limits for a specific product. This might be a pressure test to prove the durability of the pressure bearing components, a tensile strength test for joints, or an operating test to prove the durability of the working parts.

Field tests made in cooperation with large utilities. End-users with their daily work experience are the most competent source of feedback on products yet to be released, and their evaluations are essential ingredients in our product development.

Each and every single product delivered by AVK has its own identity and can be traced right back to the supplier of the raw materials allowing for extensive quality control.

AVK leverage its global knowledge and experience within local manufacturing facilities to deliver solutions to meet the needs of local project requirements. Examples of this include:

- Ductile Iron gate valves manufactured to Australian Standards, with flanges to ANSI B16 and duplex Stainless Steel materials used to provide long service life within the aggressive produced water specific to the project locality.
- Buried service valves with integral PE-pipe ends to enable a butt welding or electro fusion connection, eliminating the use of mechanical joints and the associated issues of creep within the joint connection. Valve types with integral PE ends include gate, ball and butterfly valves.

The AVK Group holds certification and accreditation for Company Management Systems as well as products.



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